802.11b/g Wireless LAN CardBus PC Card

The **WL54-PC** is an IEEE802.11g compliant wireless CardBus PC Card. It provides superior performance and interoperability within a mixed mode network (802.11b and 802.11g). The **WL54-PC** is backwards compliant with all 802.11b and 802.11b+ wireless equipment, making it a seamless integrator for the most popular wireless networks. Plus, this all-new CardBus provides a high transfer rate up to 54Mbps for today's high-speed broadband connections.

The **WL54-PC** allows you to take full advantage of your PC's mobility with access to real-time information and online services anytime anywhere. It slides into the 32-bit CardBus slot to enable a wireless connection to your network. Plus, with the network installation simplicity and flexibility, you eliminate the need to pull cable through walls and ceilings and allow the network to go where wires cannot go. Exploring the web and augmenting networks has never been easier.

FEATURES

- Complies with IEEE 802.11b and 802.11g standard for 2.4GHz Wireless LAN.
- Complies with CardBus 7.0 specification.
- Supports PC Card hot-SWAP and true Plug & Play.
- Works with all existing network infrastructure.
- Complies with specific wireless products and services
- Backward compatible with 802.11b
- Capable of up to 256-Bit WEP Encryption
- Freedom to roam while staying connected.
- Up to 54 Mbps High-Speed Transfer Rate in 802.11g mode of operation
- Diagnostic LED indicators with Integrated Antenna.
- Supports Window 98SE/2000/ME/XP
- Low power consumption
- Easy to insta ll and configure

TECHNICAL SPECIFICATIONS

Standard	IEEE 802.11b, Wi-Fi compliant/IEEE 802.11g
Chipset	Texas Instruments Incorporated (TI)
Host Interface	32Bit Cardbus interface
Antenna	Tw o antennas diversity supported
Frequency Range	2.412GHz-2.4835GHz
Number of Selectable Channels	▪ *USA, Canada: 11 channels* ▪ *Europe: 13 channels* ▪ *Japan: 14 channels*
Modulation Technique	802.11b: Direct Sequence Spread Spectrum (PBCC, CCK, DQPSK, DBPSK)
	802.11g: Orthogonal frequency division multiplexing
Data Rate	802.11b(22Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)
	802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
Preamble	802.11b: Both Short and Long preamble
	802.11g: Long preamble only
Security	Hardware-Based Encryption/Decryption Using 64-, 128-, and 256-Bit Wired-Equivalent Privacy (WEP) Keys
Output Power	OFDM : 12dBm (54Mbps) CCK : 16 dBm (11Mbps)
Receiver Sensitivity	Meet 802.11b & 802.11g standard
Bit Error rate	Meet 802.11b & 802.11g standard
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Pow er Requirement	Operating Voltage: 3.3V ▪ *TX consumption mode: 520mA* ▪ *RX consumption mode: 425mA*
Physical Specifications	▪ *Weight: 40g* ▪ *Dimension:114 (L) x 54(W) mm*
Environment Specifications	▪ *Operating Temperature: 0~65? ambient temperature* ▪ *Storage Temperature: -20~75? ambient temperature* ▪ *Operating humidity: 95% maximum (non-condensing)* ▪ *Storage humidity: 95% maximum (non-condensing)*
Supported OS	▪ *Windows 98SE* ▪ *Windows ME* ▪ *Windows 2000* ▪ *Windows XP*
EMC Certification	▪ *FCC Part 15 in US* ▪ *EN300328 and EN300826 (EN301489-17) in Europe*